Application No. Applicant(s) Index of Claims 10/810,071 GOODLETT ET AL. Examiner Art Unit Scott Haugland 3654 (Through numeral) Rejected Non-Elected **Appeal** N Cancelled 0 Allowed Restricted Interference Objected

| Cla         |          |               |  |  |              |                |  |  |          |           | CI       | Date     |            |                |           |          |          |          |          | CI            | aim | Date         |          |                                     |          |          |          |                |          |           |          |          |
|-------------|----------|---------------|--|--|--------------|----------------|--|--|----------|-----------|----------|----------|------------|----------------|-----------|----------|----------|----------|----------|---------------|-----|--------------|----------|-------------------------------------|----------|----------|----------|----------------|----------|-----------|----------|----------|
|             |          |               |  |  |              |                |  | $\neg$   |          |           |          |          |            |                |           |          |          |          |          |               |     |              |          |                                     |          |          |          | $\Box$         |          |           |          |          |
| <u></u>     | Original | 2             |  |  |              |                |  |  |          |           | ਰ        | Original |            |                |           | I        |          |          | - [      |               |     | <u></u>      | Original |                                     |          |          |          |                |          |           |          | -        |
| Final       | ġ,       | 24            | ł  |  |              |                |  |  |          |           | Final    | Ē        |            |                |           |          | ı        |          | - 1      |               |     | Final        | Ē        |                                     |          |          |          |                |          |           |          |          |
|             | 0        | K             | ł  |  |              |                |  |  |          |           | -        | 0        |            |                |           |          |          |          |          |               |     | _            | 0        |                                     |          |          |          |                |          |           |          |          |
| $\vdash$    | 1        | 2             | Ͱ  | ┢  | ┢            | ┢              | ╁╴   |  | $\vdash$ | $\dashv$  | -        | 51       | $\vdash$   | Н              | $\dashv$  | ┪        | -        | $\dashv$ | +        | +             | 1   |              | 101      | -                                   |          | _        |          | -              | -        | -         | $\dashv$ | $\dashv$ |
|             | 2        | 1             | $\vdash$   | ┢╌   | ┢            | ⊢              | ╁  | ┢╾   | Н        | $\dashv$  | -        | 52       |            | Н              | -         | $\dashv$ | $\dashv$ | +        | -+       |               | 1   |              | 102      | -                                   | Н        |          |          |                | $\vdash$ | $\dashv$  | -+       | $\dashv$ |
| $\vdash$    |          | H             | ⊢  | ├  | -            | ╀─             | ├  |  | $\vdash$ |           | -        |          | ⊢          | Н              | $\dashv$  | -        | $\dashv$ | -        | -        | +             | 1   | <u> </u>     |          | _                                   | -        | _        | -        | $\dashv$       | -        | $\dashv$  | -        | -        |
| $\vdash$    | 3        | ₩             | ⊢  | ┢  | ⊢            | ⊢              | ⊬  | _  |          |           | <u> </u> | 53       | ⊢          | Н              | $\dashv$  |          | $\dashv$ | -        | -+       |               | -   |              | 103      |                                     | $\dashv$ | -        |          | -              |          | $\dashv$  | $\dashv$ | 긕        |
| $\vdash$    | 4        | Н-            | ╙  | ┞  | <u> </u>     | ▙              | <u> </u>   | _  |          | _         |          | 54       | _          |                |           |          | 4        | $\dashv$ | 4        | _             | 1   |              | 104      | _                                   | -        |          |          | $\blacksquare$ |          | _         | $\dashv$ | ᆜ        |
| $\vdash$    | 5        | Щ             | ᆫ  | <u> </u>   | ㄴ            | <u> </u>       | <u> </u>   |  |          |           | <u> </u> | 55       | <u> </u>   | Щ              |           | _        | _        | 4        | 4        | _             |     |              | 105      |                                     | Ш        |          |          |                |          |           | _        | _        |
|             | 6        | Щ             | ᆫ  | Ļ  | Щ            | _              | <u> </u>   |  |          |           | L        | 56       | _          | Щ              |           | $\Box$   | _        | _        | _        |               |     |              | 106      |                                     |          |          |          | Щ              |          |           | _        | _        |
|             | 7        | Щ             | 匚  | <u> </u>   | Ш            | 乚              | _  |  |          |           |          | 57       | <u> </u>   | Щ              |           |          | _        |          | _        |               |     |              | 107      | _                                   |          |          |          |                |          |           | _        | _        |
|             | _8_      | Ш             | 乚  | L  |              | _              | L  |  |          | Ш         |          | 58       |            |                |           |          |          | $\perp$  | $\perp$  |               | ļ   |              | 108      |                                     | Ш        |          |          |                |          |           |          |          |
|             | 9        | $\coprod_{L}$ | <u> </u>   |  |              |                |  |  |          |           |          | 59       |            |                |           |          |          |          |          |               | j   |              | 109      |                                     |          |          |          |                |          |           |          |          |
|             | 10       | V             |  |  |              |                |  |  |          |           |          | 60       |            |                |           |          |          |          | П        |               | }   |              | 110      |                                     |          |          |          |                |          |           |          |          |
|             | 11       | Г             |  | Γ  |              | Γ              |  |  |          |           |          | 61       | Г          |                |           |          |          | T        | Т        |               | 1   |              | 111      |                                     |          |          |          |                |          |           | コ        | $\neg$   |
|             | 12       |               | Г  |  |              |                |  |  |          |           |          | 62       |            |                |           |          |          | $\neg$   | 丁        |               | ]   |              | 112      |                                     |          |          |          |                |          |           | $\neg$   | ᅦ        |
|             | 13       | Г             |  |  |              | Г              | Γ  |  |          |           |          | 63       |            |                |           |          |          | $\neg$   | $\neg$   |               | 1   |              | 113      |                                     | П        |          |          |                |          |           | $\neg$   | ヿ        |
|             | 14       | Г             | Г  | П  | П            | $\top$         | $\vdash$   |  |          | $\Box$    |          | 64       |            | П              |           |          |          | $\dashv$ | 寸        | $\top$        | 1   |              | 114      |                                     | М        |          |          |                |          | $\neg$    | 寸        | $\dashv$ |
|             | 15       | Г             | Г  | Т  |              | 1              | $\vdash$   | Т  |          |           |          | 65       | Г          | П              |           |          | $\dashv$ | $\dashv$ | ┪        | Ť             | 1   |              | 115      |                                     | П        |          |          |                |          |           | ヿ        | $\dashv$ |
| $\vdash$    | 16       |               | <del>                                     </del> |  | <b>T</b>     | $\vdash$       | $\vdash$   |  |          | $\dashv$  |          | 66       | Т          | Н              | $\vdash$  |          | $\dashv$ | $\dashv$ | ┪        | $\dashv$      | 1   |              | 116      |                                     | П        |          | Н        | H              | $\Box$   | $\neg$    | 一        | $\dashv$ |
| $\vdash$    | 17       | _             | 1  | $\vdash$   | $\vdash$     | 1-             | <del>                                     </del> | $\vdash$   | -        | $\dashv$  |          | 67       | 一          | H              | $\vdash$  | $\dashv$ | $\dashv$ | $\dashv$ | ┪        | $\dashv$      | 1   |              | 117      |                                     | Н        |          | $\vdash$ | Н              | $\vdash$ | $\dashv$  | $\dashv$ | $\dashv$ |
| $\vdash$    | 18       | $\vdash$      | -  | ╁  | _            | ┼              | $\vdash$   | -  | -        |           | _        | 68       | ┢          | -              | $\vdash$  | $\dashv$ | $\dashv$ | +        | +        | $\dashv$      | ł   |              | 118      | $\vdash$                            | Н        | _        | $\vdash$ | Н              | -        | $\dashv$  | $\dashv$ | 一        |
| $\vdash$    | 19       | $\vdash$      | $\vdash$   | <del>                                     </del> |              | ╁              | ┢  | <del> </del>                                     | $\vdash$ | $\dashv$  |          | 69       | ┢          | -              | $\vdash$  |          |          | +        | -        |               | ł   |              | 119      | $\vdash$                            | Н        |          |          | -              |          | -         | $\dashv$ | $\dashv$ |
| $\vdash$    | 20       | -             | ┢  | -  | -            | ╌              | ┢  | -  | ┝        | $\dashv$  |          | 70       | ├          | $\vdash$       | $\dashv$  | $\dashv$ | $\dashv$ | $\dashv$ | ┥        | -             | ł   |              | 120      | $\vdash$                            | Н        | $\vdash$ | $\vdash$ | Н              | $\vdash$ | $\dashv$  | $\dashv$ | $\dashv$ |
| $\vdash$    |          | ⊢             | ┝  | <b> </b> -                                       | H            | ⊦−             | <b> </b>   | <b>.</b>   | -        | $\dashv$  |          |          | <b> </b> - | -              |           | $\dashv$ |          |          | +        | - -           | ┨   |              |          |                                     | -        |          |          | щ              |          | $\dashv$  |          | $\dashv$ |
| $\vdash$    | 21       | -             | ├-   | ⊢  | -            | -              | ┝  | _  | _        | -         |          | 71       | <u> </u>   |                | $\dashv$  |          | -        | -        | -        | - -           | -   |              | 121      | _                                   | Н        |          |          | _              |          | $\dashv$  | $\dashv$ |          |
| $\vdash$    | 22       | <u> </u>      | $\vdash$   | <u> </u>   | ╙            | ┞              | <u> </u>   |  |          | Ш         |          | 72       | _          | Щ              | Ш         |          | $\Box$   | $\dashv$ | 4        | _             | 1   | <u> </u>     | 122      |                                     | Ш        |          |          |                |          | $\Box$    | _        | _        |
| $\vdash$    | 23       | ╙             | _  | _  | _            | <u> </u>       | ╙  | <u> </u>   | _        | _         |          | 73       |            |                |           |          |          |          | _        |               | ļ   |              | 123      |                                     | Ш        |          |          |                |          |           | _        |          |
|             | 24       | ╙             |  | <u> </u>   | _            | <u> </u>       | <u> </u>   | L  | _        | Щ         | ļ        | 74       | L          |                | $\Box$    |          |          | _        | 4        |               | 1   |              | 124      | _                                   | Ш        |          |          |                |          | _         | _        | _        |
| $\sqcup$    | 25       | _             | _  | _  | _            | L              | L  | _  |          | Ш         |          | 75       | _          |                |           |          |          |          | _        |               |     | <u> </u>     | 125      |                                     |          |          |          |                |          | $\Box$    | _        | _        |
|             | 26       | _             | L  |  |              | $oxed{oxed}$   | <u> </u>   |  | L        | Ш         | L        | 76       |            |                |           |          |          | $\perp$  | $\perp$  |               | Į   |              | 126      |                                     |          |          |          |                |          |           |          | ╝        |
|             | 27       |               |  |  |              |                | L  | L.   |          | Ш         |          | 77       | <u> </u>   |                |           |          |          |          | $\perp$  |               | ]   |              | 127      |                                     |          |          |          |                |          |           |          |          |
|             | 28       |               |  |  |              |                | <u></u>  | <u>L.</u>  |          |           |          | 78       |            |                |           |          |          |          |          |               | J   |              | 128      |                                     |          |          |          |                |          |           |          |          |
|             | 29       |               |  |  |              |                |  |  |          |           |          | 79       | Π          |                |           |          |          | $\neg$   |          |               | 1   |              | 129      |                                     |          |          |          |                |          |           |          | $\neg$   |
|             | 30       |               |  |  |              |                |  |  |          |           |          | 80       |            |                |           |          |          |          |          |               | 1   |              | 130      |                                     |          |          |          |                |          |           |          |          |
| $\Box$      | 31       | Γ             | П  | Π  | Π            | Π              | Γ  | Г  |          |           |          | 81       | Г          |                |           |          | $\neg$   | $\dashv$ | $\dashv$ | $\neg \vdash$ | 1   |              | 131      |                                     |          |          |          |                |          |           | $\neg$   | $\neg$   |
|             | 32       | Γ             | Ī  | Г  |              | Г              |  | Г  |          | $\Box$    |          | 82       | Г          |                |           |          | $\neg$   | $\neg$   | 寸        | $\neg \vdash$ | 1   |              | 132      | П                                   | П        |          |          | П              |          | $\Box$    | $\dashv$ | ᅱ        |
| $\Box$      | 33       |               | Т  | T  | Г            | T              | Т  |  | Т        | $\Box$    |          | 83       | Т          |                | М         | $\neg$   | $\neg$   | $\dashv$ | 7        | $\neg$        | 1   |              | 133      | Т                                   | П        |          | П        | П              |          | $\dashv$  | $\dashv$ | $\dashv$ |
| $\vdash$    | 34       | T             | $\vdash$   | t  |              | t              |  |  | _        | $\dashv$  | -        | 84       | $\vdash$   | Н              | $\vdash$  | $\vdash$ |          | $\dashv$ | $\dashv$ | $\neg$        | 1   | $\vdash$     | 134      | П                                   | Н        |          | Н        | Н              | Н        | $\dashv$  | $\dashv$ | $\dashv$ |
| $\vdash$    | 35       | $\vdash$      | 1  | $t^{-}$  | Т            | ✝              | -  |  | -        | $\dashv$  | <u> </u> | 85       | $\vdash$   | $\vdash$       | $\vdash$  | $\vdash$ | $\dashv$ | $\dashv$ | 7        | $\dashv$      | 1   |              | 135      | $\vdash$                            | Н        |          | Н        | Н              |          | $\dashv$  | $\dashv$ | $\dashv$ |
| $\vdash$    | 36       | $\vdash$      | 1  | $\vdash$   |              | +-             | 1  | $\vdash$   | $\vdash$ | $\dashv$  |          | 86       | H          | Н              | $\vdash$  | -        |          | +        | -+       | $\dashv$      | 1   | _            | 136      | $\vdash$                            | Н        | $\vdash$ | H        | Н              |          | $\dashv$  | $\dashv$ | $\dashv$ |
| $\vdash$    | 37       | $\vdash$      | -  | ├  |              | $\vdash$       | $\vdash$   | <del>                                     </del> | $\vdash$ | $\vdash$  | -        | 87       | $\vdash$   | $\vdash$       | $\vdash$  |          | $\dashv$ | +        | -1       | +-            | 1   |              | 137      | $\vdash$                            | Н        |          | $\vdash$ | Н              | $\vdash$ | $\dashv$  | $\dashv$ | $\dashv$ |
| $\vdash$    | 38       | $\vdash$      | $\vdash$   | $\vdash$   | $\vdash$     | -              | -  | $\vdash$   | -        | $\dashv$  | <u> </u> | 88       | -          | $\vdash$       |           |          | -        | +        | -        |               | 1   | ├──          | 138      | -                                   | Н        |          | Н        | Н              | Н-,      | $\dashv$  | $\dashv$ | $\dashv$ |
| $\vdash$    | 39       | $\vdash$      | ⊢  | +-   | ╁            | $\vdash$       | $\vdash$   | $\vdash$   | $\vdash$ | $\dashv$  | -        | 89       | -          |                |           | $\dashv$ |          | $\dashv$ | -+       | +             | ┨   | <del> </del> | 130      | $\vdash$                            | $\vdash$ | _        | Н        | Н              | Н        | $\dashv$  | $\dashv$ | $\dashv$ |
| $\vdash$    |          | -             | -  | ₩  | ├            | ├-             | -  |  | -        | $\dashv$  | -        |          | ⊢          | $\vdash\vdash$ | $\vdash$  | $\vdash$ | $\dashv$ | +        | -        |               | ł   | <u> </u>     | 139      | $\vdash$                            | -        |          | $\vdash$ | $\vdash$       | $\vdash$ |           | $\dashv$ |          |
| <del></del> | 40       | $\vdash$      | 1  |  | <del> </del> | <del> </del> — | -  | <b>—</b>   | _        | $\square$ | <u> </u> | 90       | <u> </u>   |                | $\square$ |          | $\dashv$ | 4        | 4        |               | ł   | <u></u>      | 140      | L                                   | Н        | _        | Щ        | Ш              | Ш        | $\dashv$  | _        | _        |
| $\mapsto$   | 41       | <u> </u>      | -  | ┡  | <b> </b>     | <b> </b>       | <del> </del>                                     | <u> </u>   | _        | $\Box$    |          | 91       | <u> </u>   | Щ              | $\vdash$  | _        | $\dashv$ | $\dashv$ | 4        |               | 1   |              | 141      | L                                   | Ш        |          | Щ        | Щ              | $\sqcup$ | $\sqcup$  |          | _        |
| $\vdash$    | 42       | <u> </u>      | <u> </u>   | _  | <u> </u>     | ــــ           | <u> </u>   | <u> </u>   |          | Щ         | L        | 92       | <u> </u>   | $\square$      | Ш         |          | $\sqcup$ | _        | _ļ       |               | 1   |              | 142      | $ldsymbol{ldsymbol{ldsymbol{eta}}}$ | Щ        |          | Щ        | Ш              | Ш        |           |          | _        |
| $\sqcup$    | 43       | _             | <u> </u>   | _  | L            | <u> </u>       | <u> </u>   |  | $\sqcup$ |           | L        | 93       |            | $\Box$         |           |          |          | _        |          |               | Į   |              | 143      |                                     | $\Box$   |          |          | Ш              | Ш        |           | ᆚ        |          |
| $\square$   | 44       | _             | $\perp$  | <u></u>  | _            | <u> </u>       | _  |  |          |           | L        | 94       | <u></u>    | Ш              |           |          |          |          | _[       |               | 1   |              | 144      |                                     |          |          |          |                |          | ot        |          | _]       |
|             | 45       | L             | L  | L  | L            | L              | L  | L  |          |           |          | 95       | L          |                |           |          |          |          |          |               | ]   |              | 145      |                                     |          |          |          |                |          |           | T        | ]        |
|             | 46       | 匚             | Ĺ  |  |              |                |  |  |          |           |          | 96       |            |                |           |          |          |          | T        |               | ]   |              | 146      |                                     |          |          |          |                |          |           | $\Box$   |          |
|             | 47       | Γ             | Γ  |  |              |                |  |  |          |           |          | 97       |            |                |           |          |          |          | 寸        | $\neg \vdash$ | 1   |              | 147      |                                     | П        |          |          | П              |          | $\Box$    | $\dashv$ | $\neg$   |
|             | 48       | Г             | Г  | Г  |              | П              |  |  |          | $\sqcap$  |          | 98       | Г          |                |           |          |          | 1        | 寸        |               | 1   |              | 148      |                                     | П        |          |          |                |          | $\exists$ | $\dashv$ | $\neg$   |
|             | 49       | Г             | Г  | Г  | Г            | $I^-$          | 1  | Г  |          |           |          | 99       | Т          |                |           |          | $\neg$   | +        | 7        | $\top$        | 1   |              | 149      |                                     | П        |          | П        | М              |          | $\neg$    | 7        | ᅱ        |
|             | 50       | Г             | ⇈  | $\top$   |              | Т              | $\vdash$   |  |          | $\sqcap$  |          | 100      | T          | М              | $\vdash$  |          | $\dashv$ | $\dashv$ | 1        | $\top$        | 1   |              | 150      | $\vdash$                            | П        |          | $\vdash$ | Н              |          | $\exists$ | $\dashv$ | $\dashv$ |
|             |          | 1             |  | 1  | 1            |                |  |  |          |           |          |          |            |                |           |          |          |          |          | 1             | ,   | 1            |          |                                     |          |          |          |                |          |           |          |          |